FIG. 1

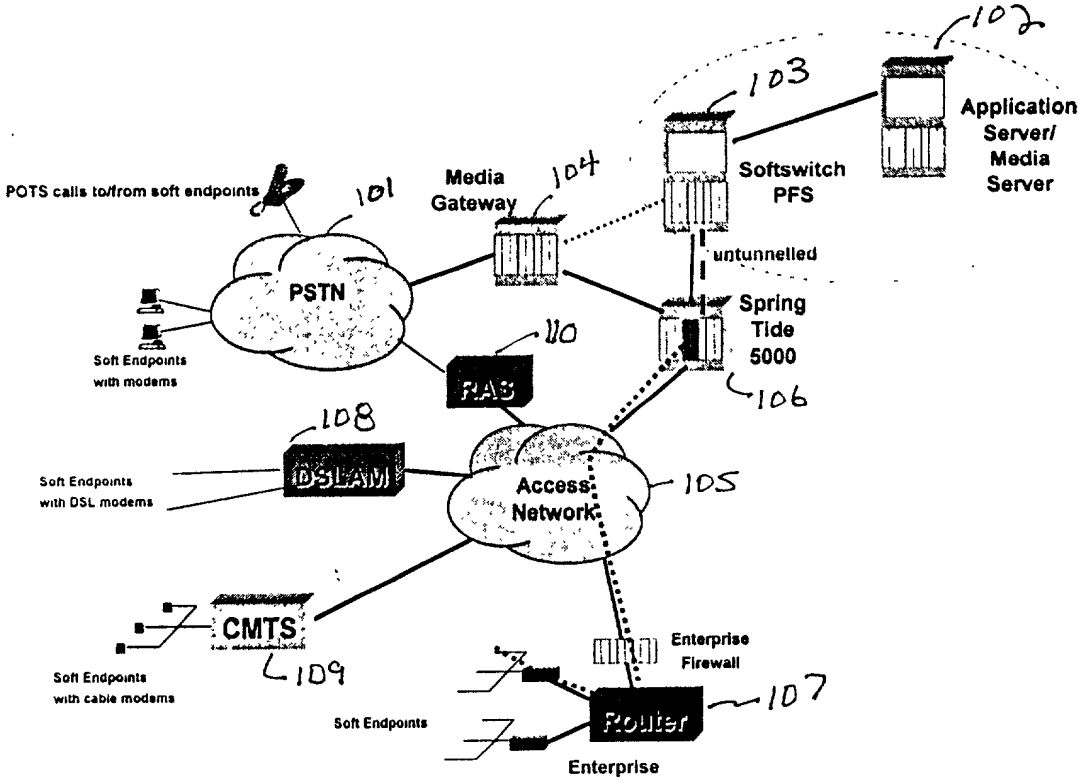

102
103
Application Server/ Media Server
Softswitch PFS
POTS calls to/from soft endpoints
101
Media Gateway
104
untunnelled
PSTN
Spring Tide 5000
Soft Endpoints with modems
110
RAS
106
108
DSLAM
Soft Endpoints with DSL modems
Access Network
105
CMTS
Enterprise Firewall
Soft Endpoints with cable modems
109
Router
107
Soft Endpoints
Enterprise

FIG. 2

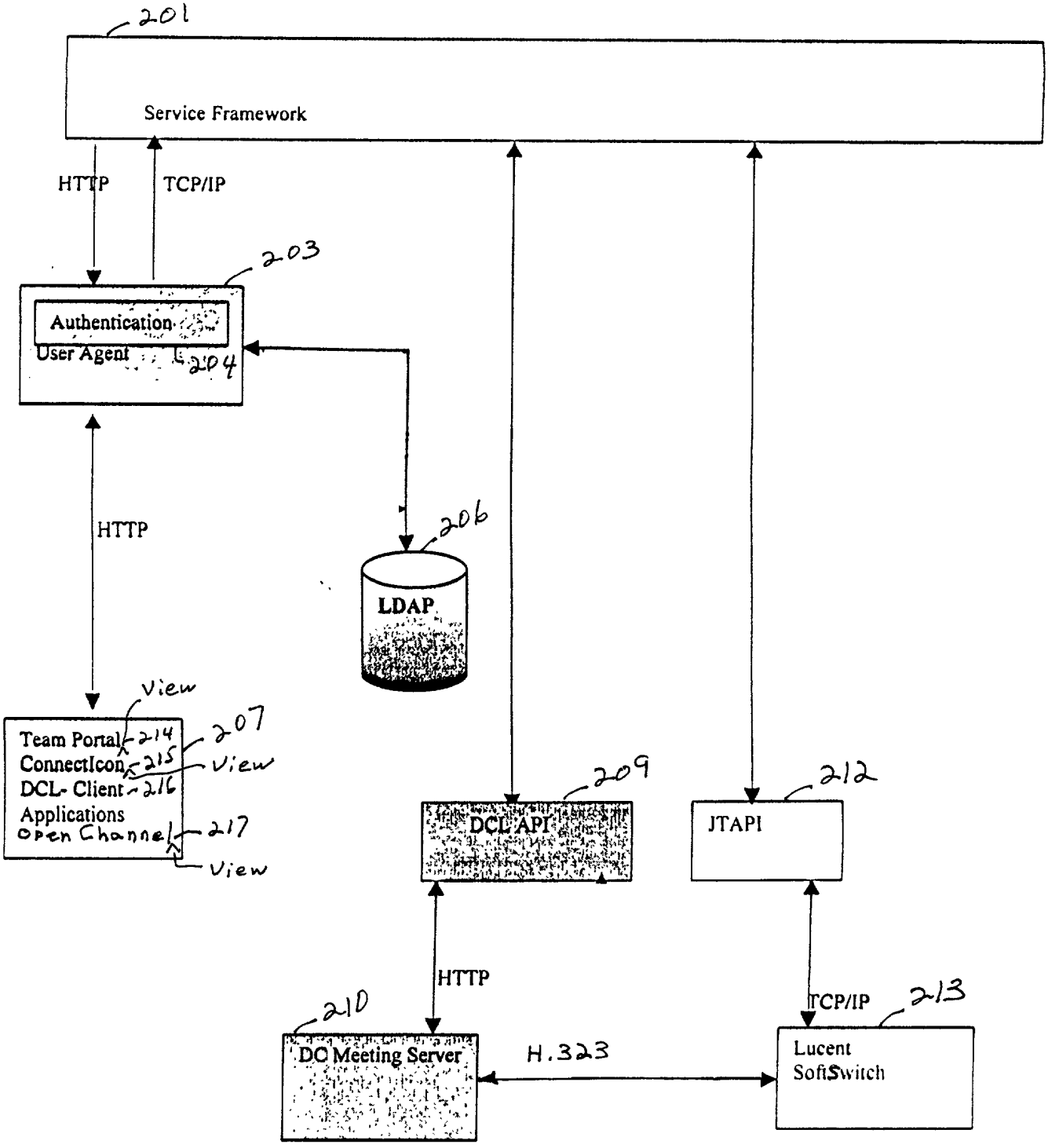

201
Service Framework
HTTP
TCP/IP
203
Authentication
User Agent
204
HTTP
206
LDAP
View
Team Portal
214
207
ConnectIcon
215
View
DCL- Client
216
Applications
Open Channel
217
View
209
DCL API
212
JTAPI
HTTP
TCP/IP
213
210
DC Meeting Server
H.323
Lucent
SoftSwitch

FIG. 3

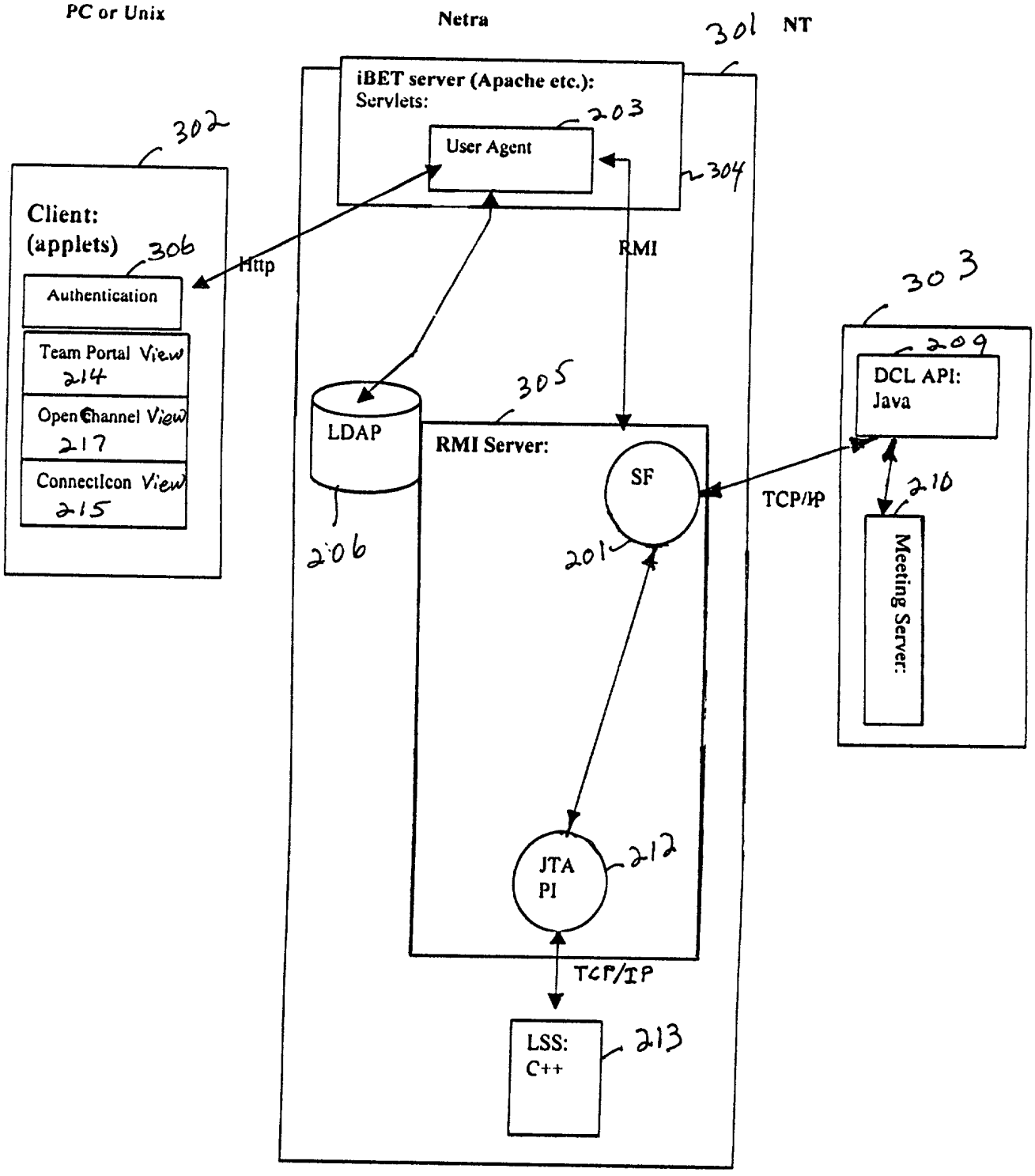

PC or Unix
Netra
NT
301
iBET server (Apache etc.):
Servlets:
203
User Agent
304
302
Client:
(applets)
306
Authentication
Team Portal View
214
Open Channel View
217
ConnectIcon View
215
Http
RMI
303
209
DCL API:
Java
305
LDAP
RMI Server:
SF
TCP/IP
210
206
201
Meeting Server:
JTA
PI
212
TCP/IP
LSS:
C++
213

FIG. 4

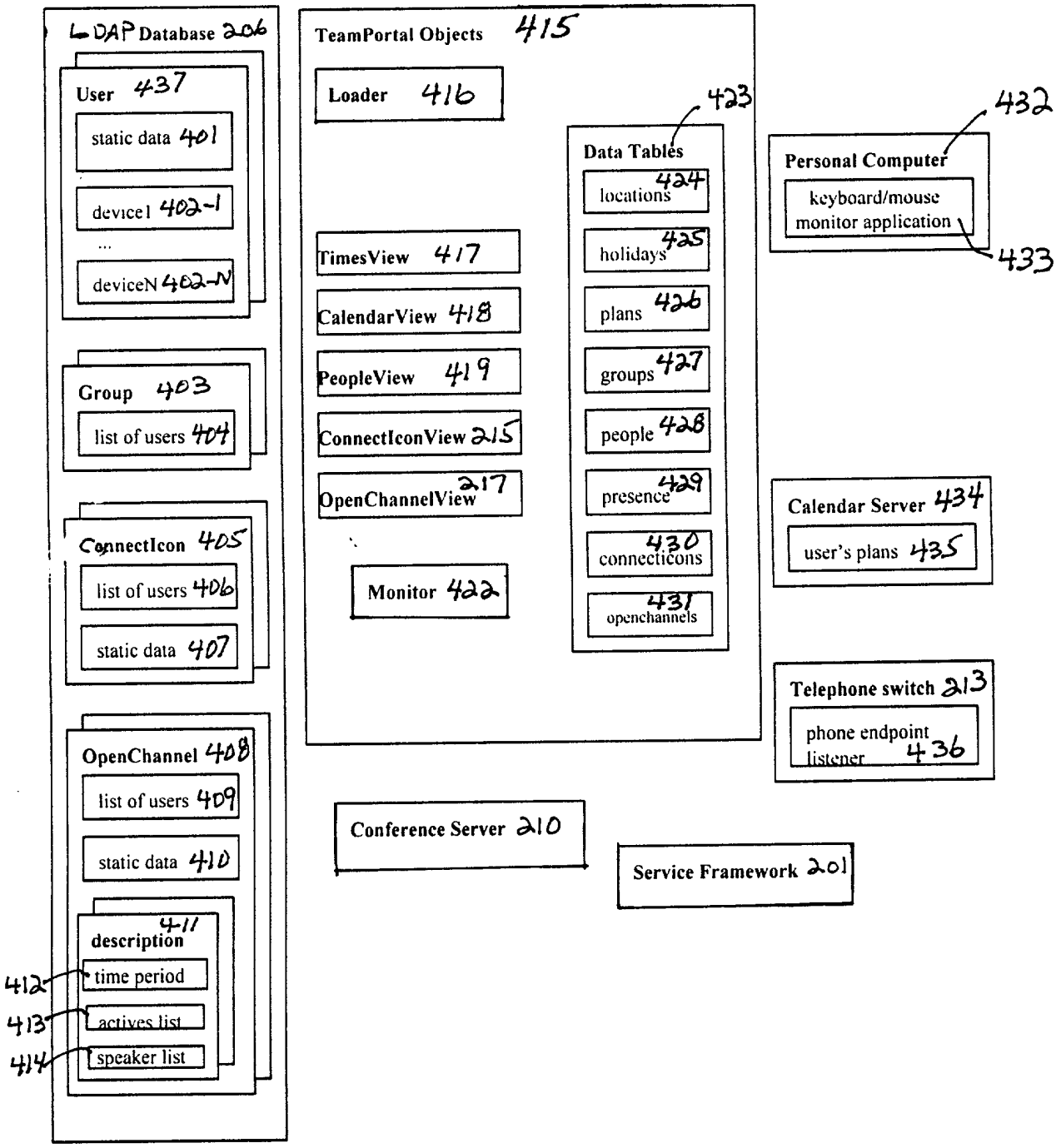
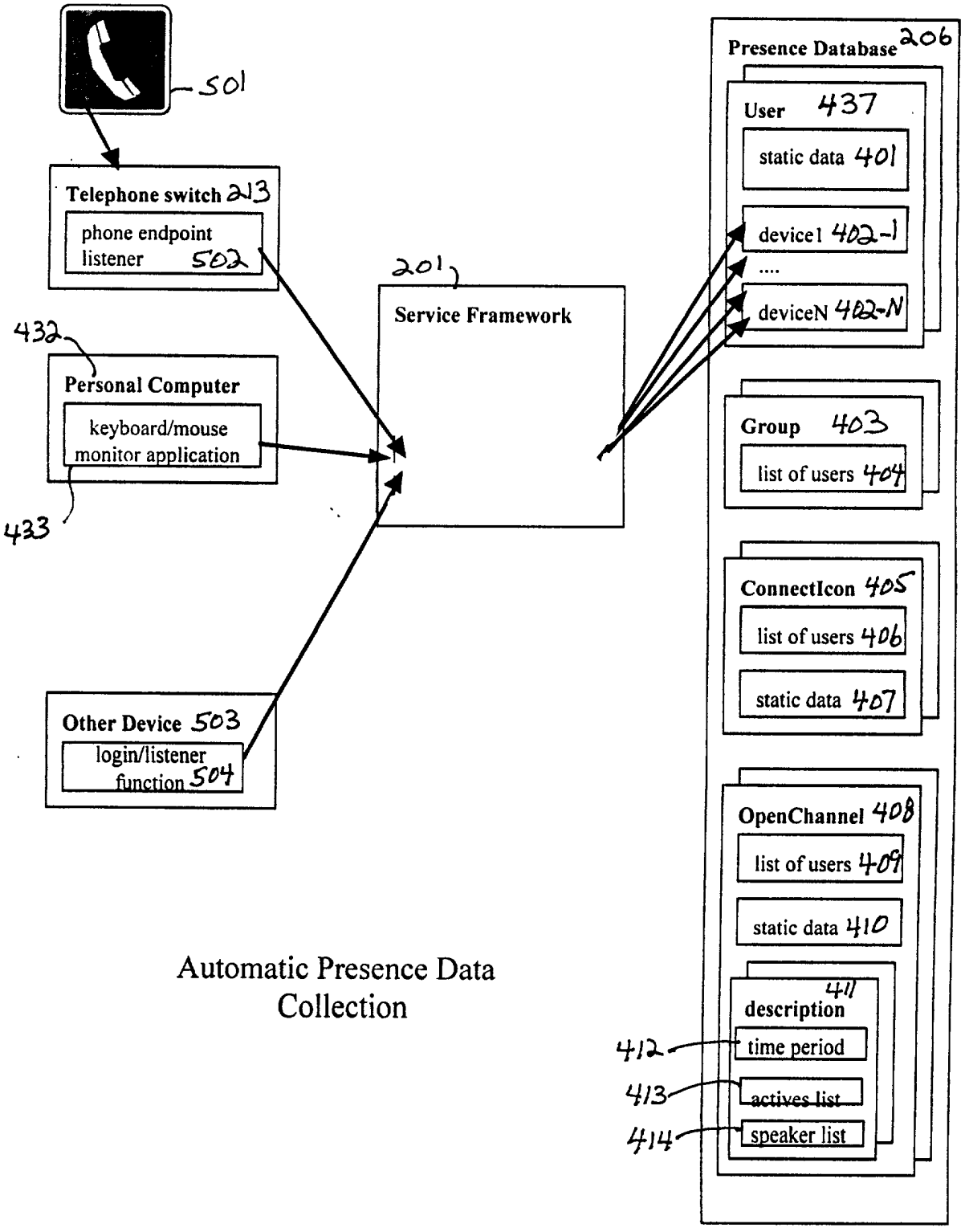
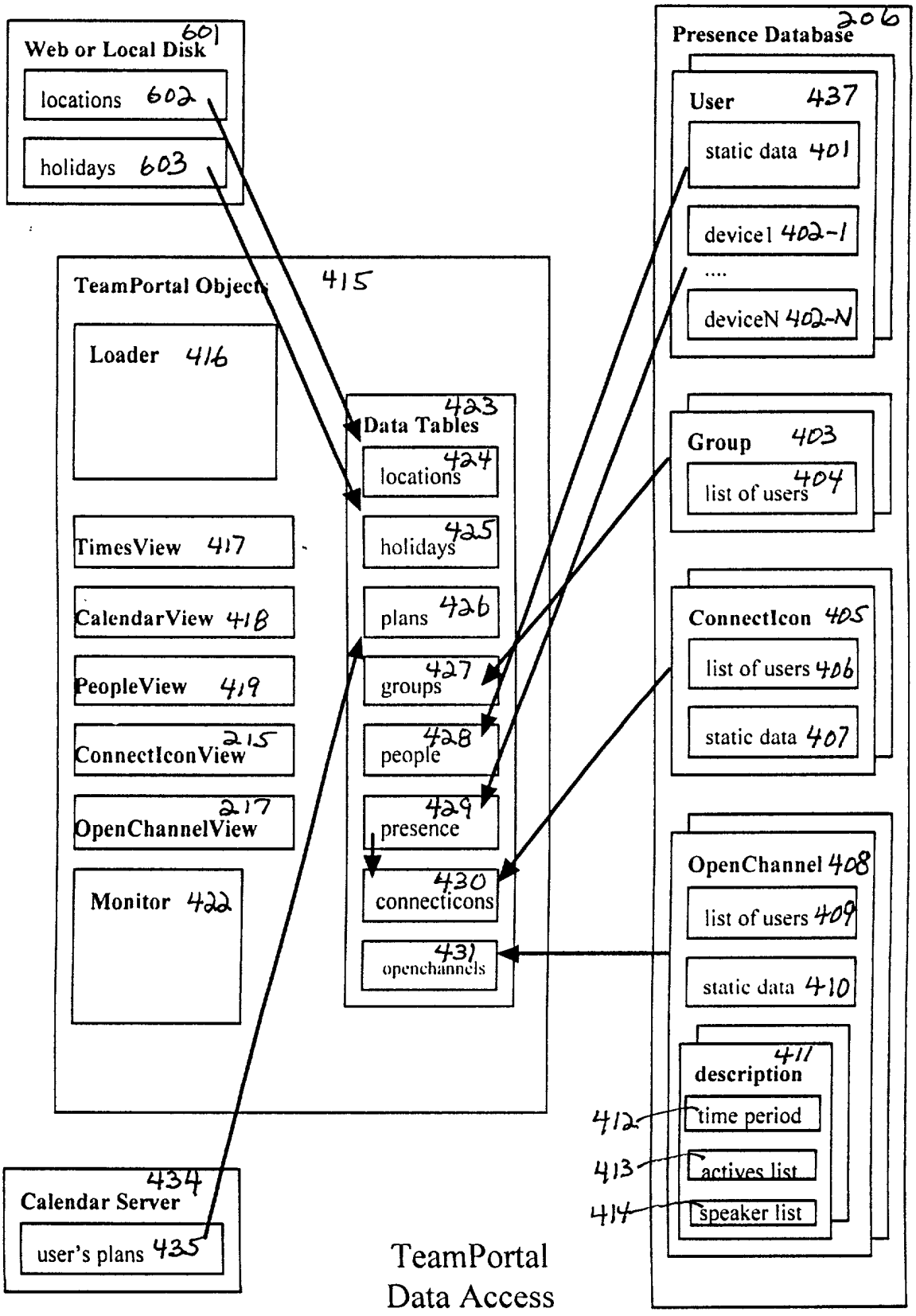

LDAP Database 206
User 437
static data 401
device1 402-1
...
deviceN 402-N
Group 403
list of users 404
ConnectIcon 405
list of users 406
static data 407
OpenChannel 408
list of users 409
static data 410
description 411
time period
actives list
speaker list
412
413
414
TeamPortal Objects 415
Loader 416
TimesView 417
CalendarView 418
PeopleView 419
ConnectIconView 215
OpenChannelView 217
Monitor 422
Data Tables 423
locations 424
holidays 425
plans 426
groups 427
people 428
presence 429
connecticons 430
openchannels 431
Personal Computer 432
keyboard/mouse monitor application
433
Calendar Server 434
user's plans 435
Telephone switch 213
phone endpoint listener 436
Conference Server 210
Service Framework 201

FIG. 5



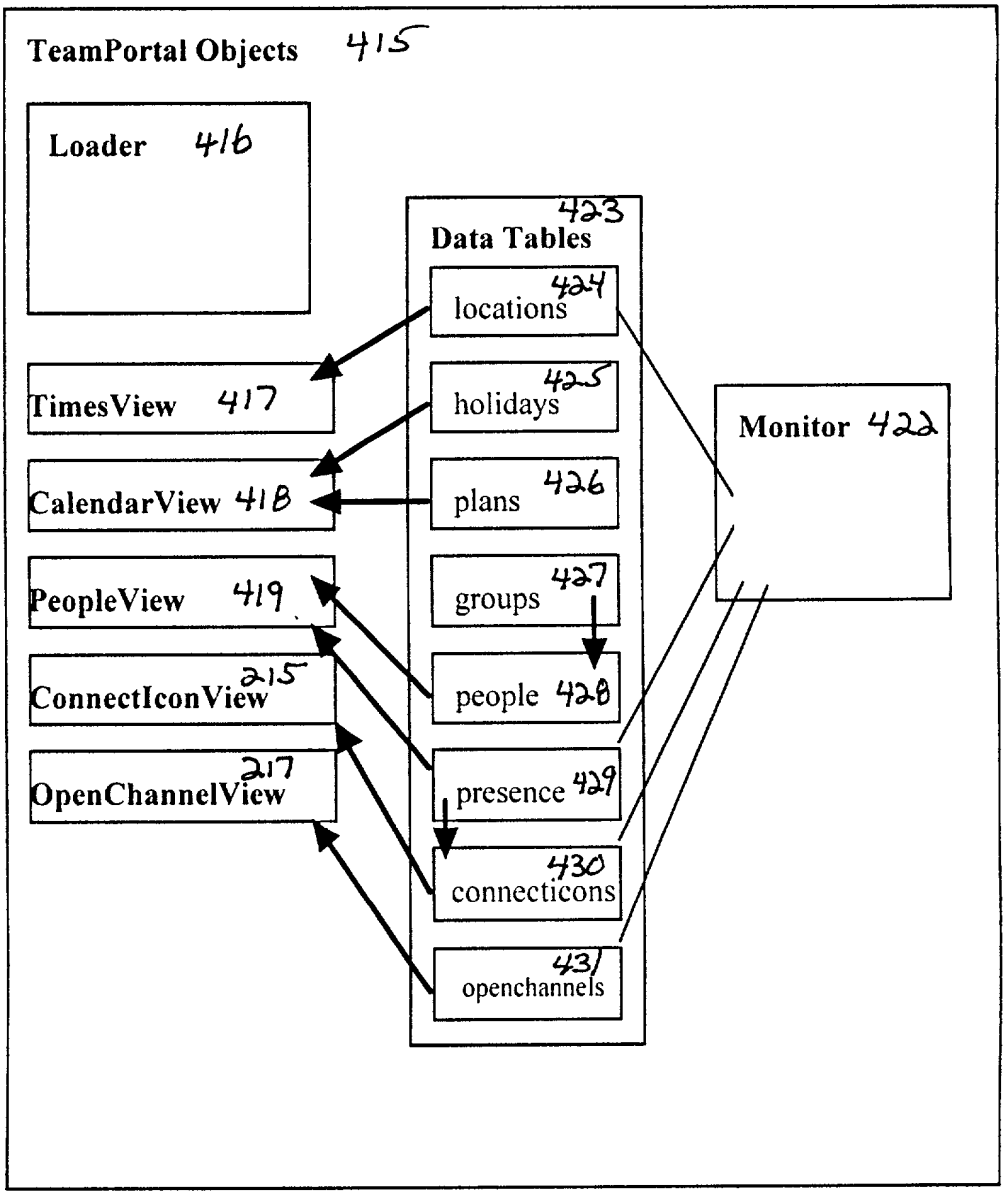
Automatic Presence Data Collection

FIG. 6



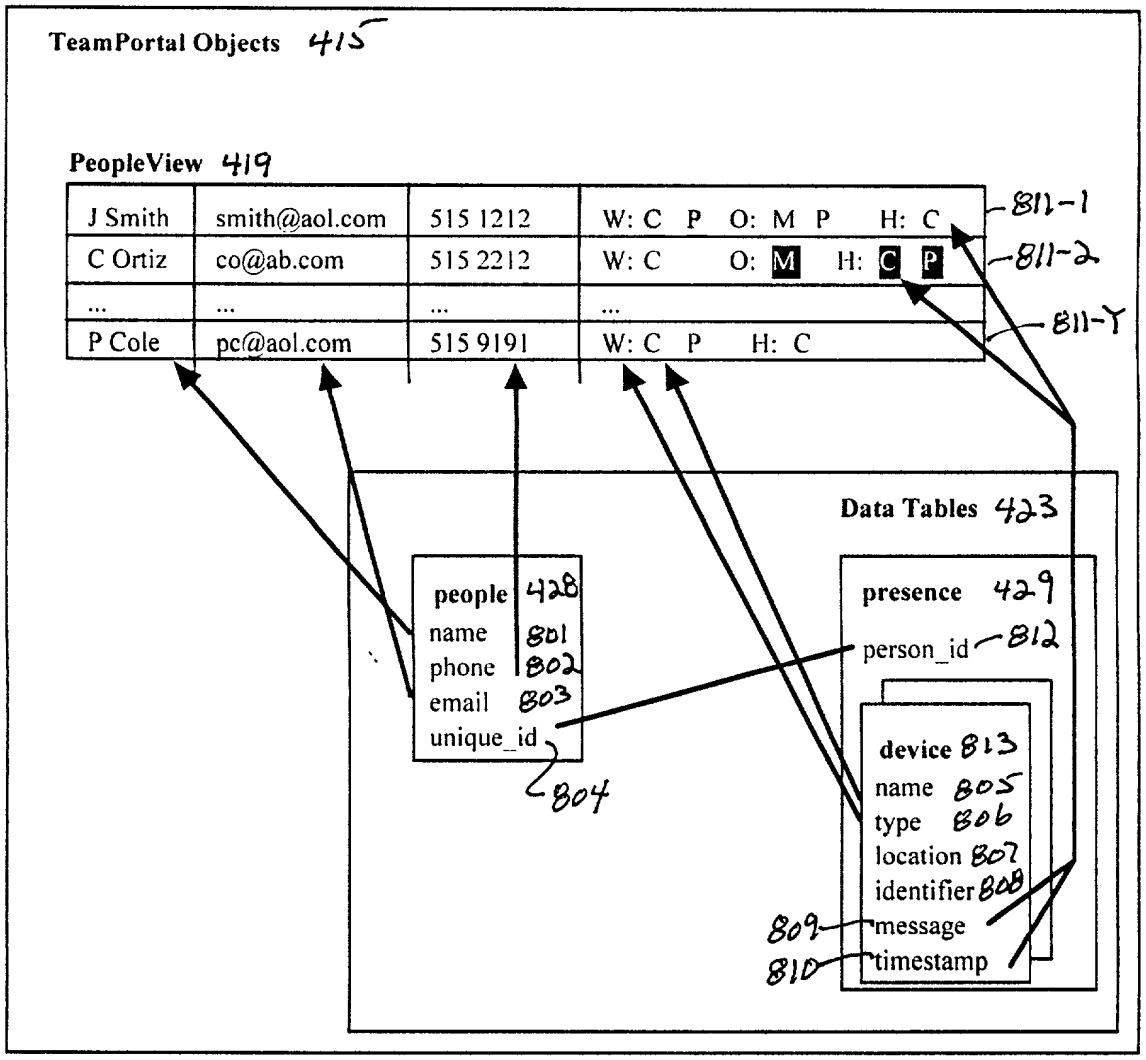
TeamPortal
Data Access

FIG. 7



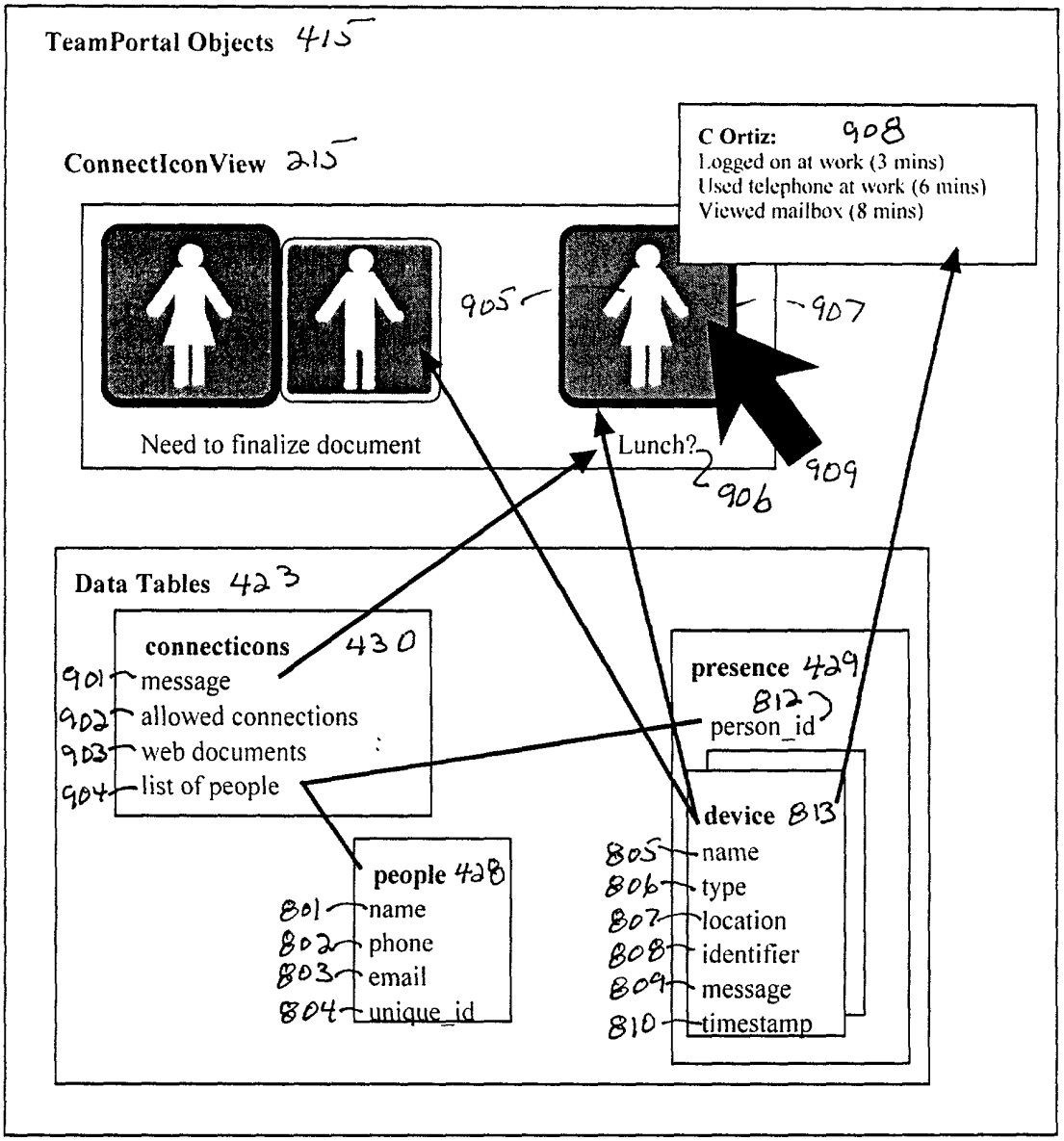
TeamPortal
Data Use

FIG. 8



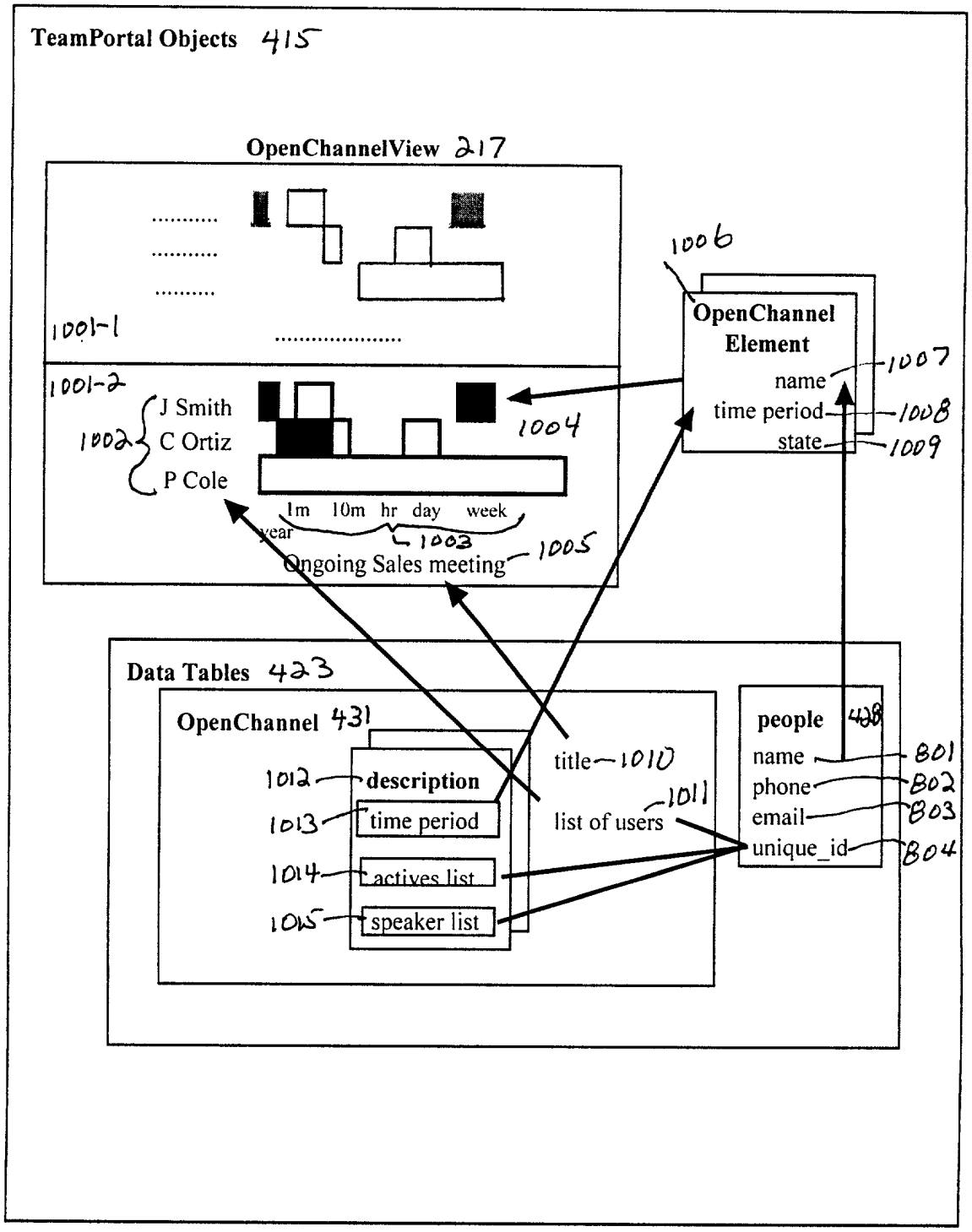
PeopleView Details

FIG. 9



ConnectIconView Details

FIG. 10



OpenChannelView Details

FIG. 11

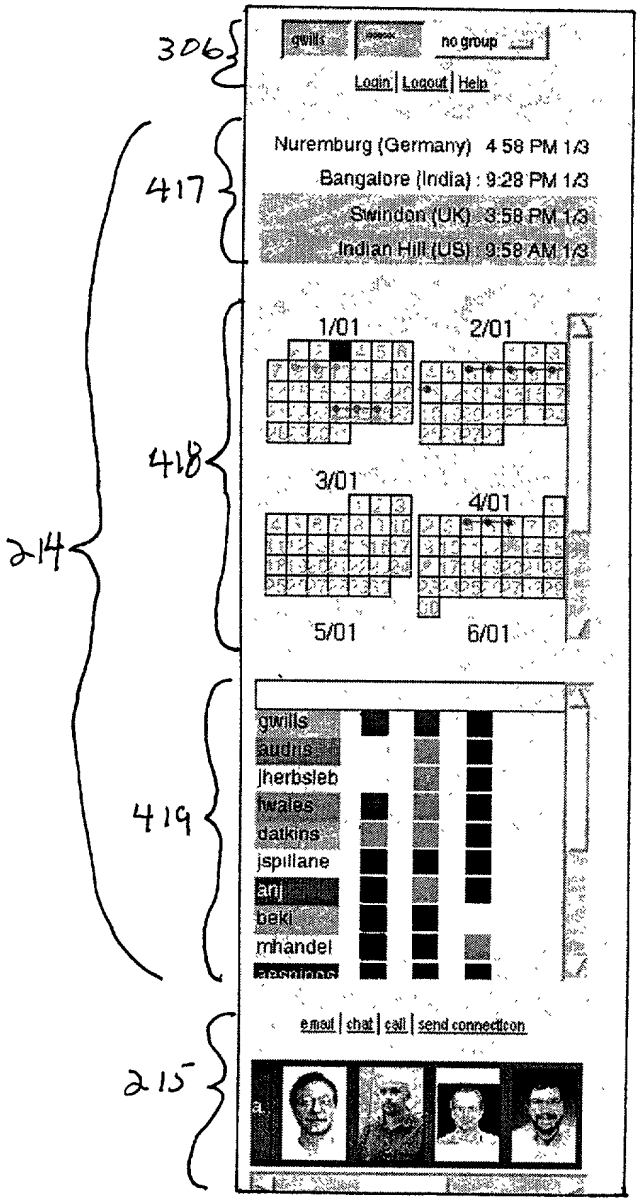

306
gwills
no group
Login | Logout | Help
417
Nuremburg (Germany) 4:58 PM 1/3
Bangalore (India) : 9:28 PM 1/3
Swindon (UK) 3:58 PM 1/3
Indian Hill (US) 9:58 AM 1/3
418
1/01
2/01
3/01
4/01
5/01
6/01
214
419
gwills
audris
jherbsleb
fwales
dalkins
jspillane
anj
beki
mhandel
emot | chat | call | send connection
215

FIG. 12

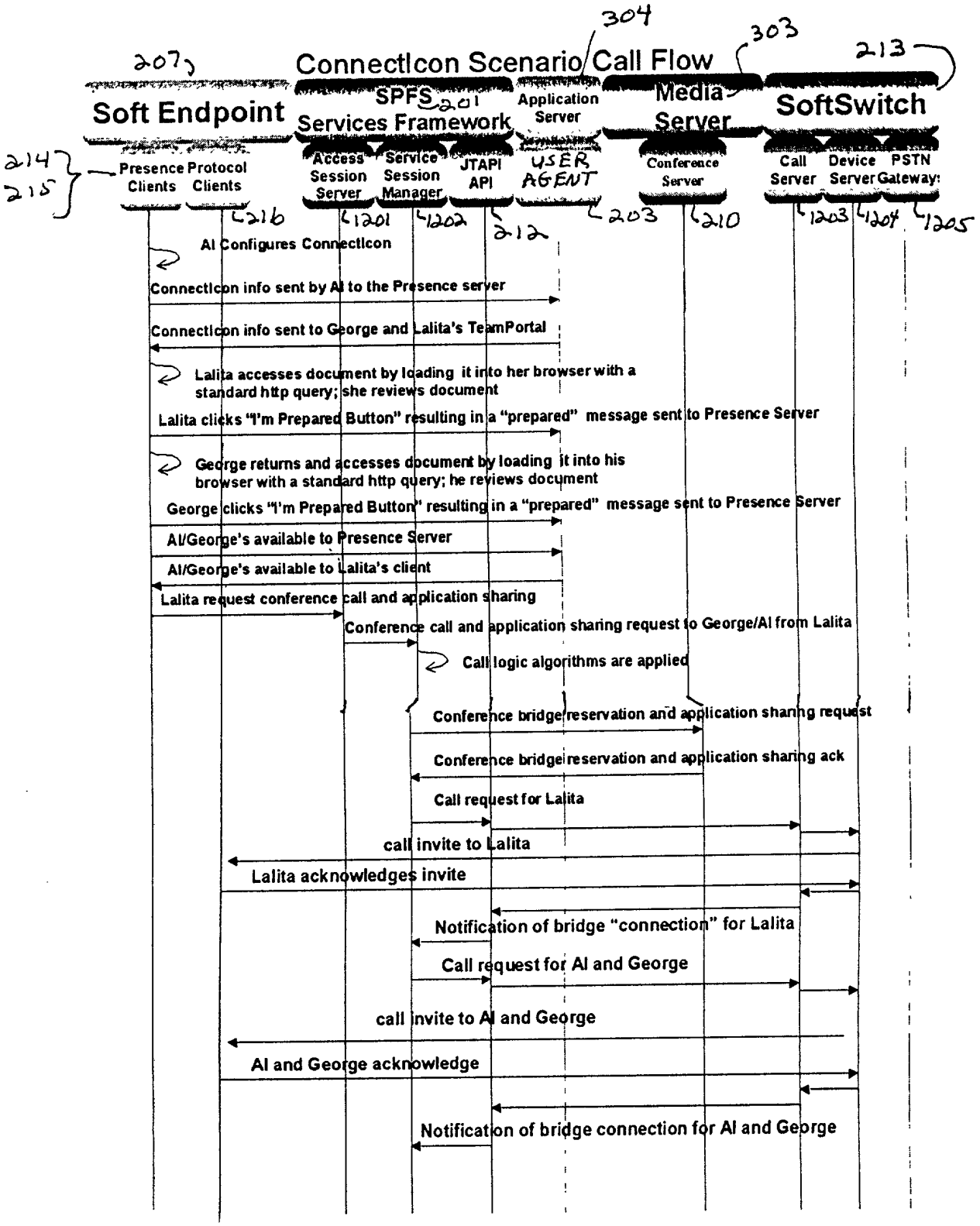
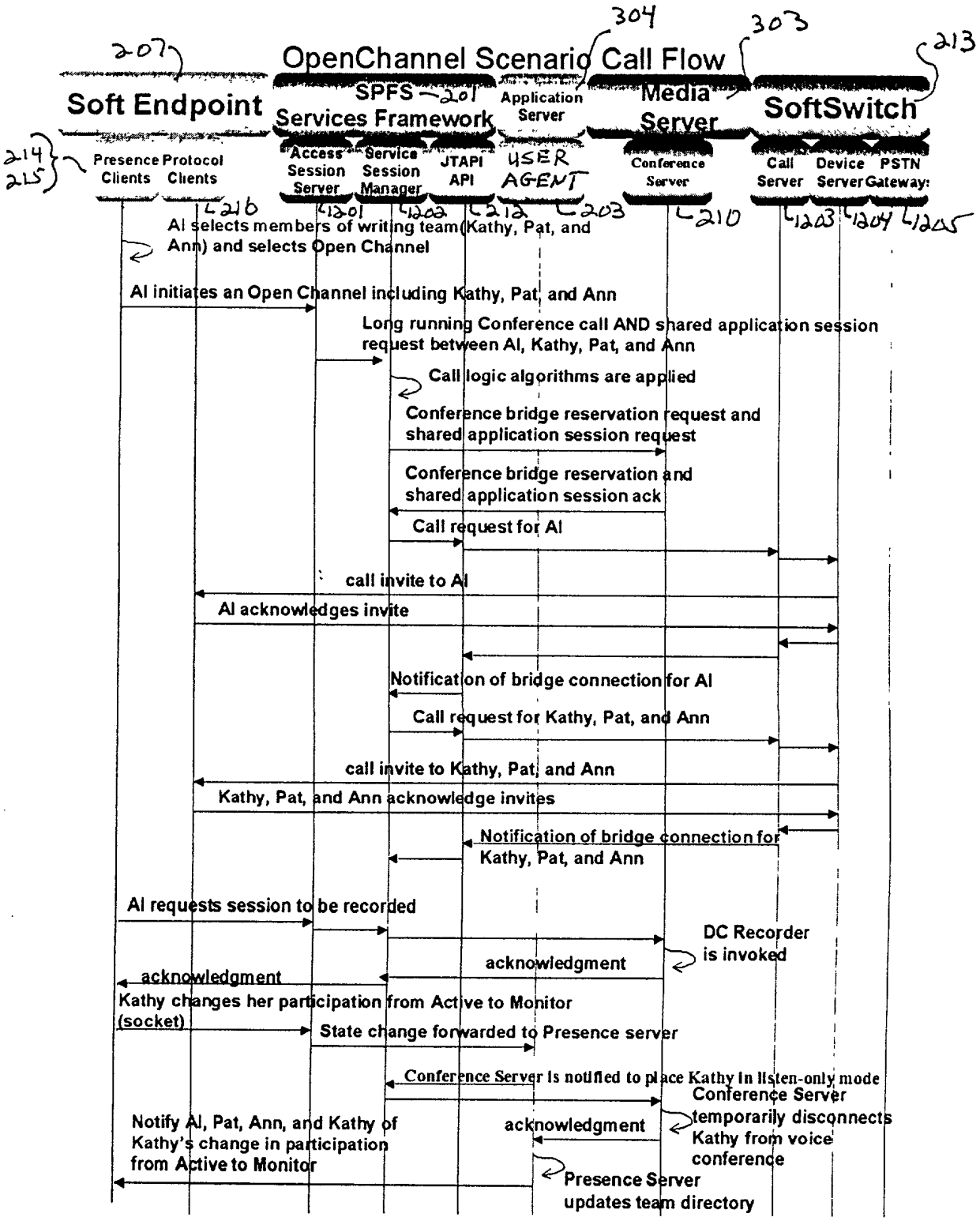

304
303
213
207
ConnectIcon Scenario/Call Flow
Soft Endpoint
SPFS 201
Services Framework
Application Server
Media Server
SoftSwitch
214
215
Presence Clients
Protocol Clients
Access Session Server
Service Session Manager
JTAPI API
USER AGENT
Conference Server
Call Server
Device Server
PSTN Gateway
216
1201
1202
212
203
210
1203
1204
1205
Al Configures ConnectIcon
ConnectIcon info sent by Al to the Presence server
ConnectIcon info sent to George and Lalita's TeamPortal
Lalita accesses document by loading it into her browser with a standard http query; she reviews document
Lalita clicks "I'm Prepared Button" resulting in a "prepared" message sent to Presence Server
George returns and accesses document by loading it into his browser with a standard http query; he reviews document
George clicks "I'm Prepared Button" resulting in a "prepared" message sent to Presence Server
Al/George's available to Presence Server
Al/George's available to Lalita's client
Lalita request conference call and application sharing
Conference call and application sharing request to George/Al from Lalita
Call logic algorithms are applied
Conference bridge reservation and application sharing request
Conference bridge reservation and application sharing ack
Call request for Lalita
call invite to Lalita
Lalita acknowledges invite
Notification of bridge "connection" for Lalita
Call request for Al and George
call invite to Al and George
Al and George acknowledge
Notification of bridge connection for Al and George

FIG. 13


OpenChannel Scenario Call Flow
207
304
303
213
Soft Endpoint
SPFS 201
Services Framework
Application Server
Media Server
SoftSwitch
214
215
Presence Clients
Protocol Clients
Access Session Server
Service Session Manager
JTAPI API
USER AGENT
Conference Server
Call Server
Device Server
PSTN Gateway
216
1201
1202
212
203
210
1203
1204
1205
AI selects members of writing team (Kathy, Pat, and Ann) and selects Open Channel
AI initiates an Open Channel including Kathy, Pat, and Ann
Long running Conference call AND shared application session request between AI, Kathy, Pat, and Ann
Call logic algorithms are applied
Conference bridge reservation request and shared application session request
Conference bridge reservation and shared application session ack
Call request for AI
call invite to AI
AI acknowledges invite
Notification of bridge connection for AI
Call request for Kathy, Pat, and Ann
call invite to Kathy, Pat, and Ann
Kathy, Pat, and Ann acknowledge invites
Notification of bridge connection for Kathy, Pat, and Ann
AI requests session to be recorded
DC Recorder is invoked
acknowledgment
acknowledgment
Kathy changes her participation from Active to Monitor (socket)
State change forwarded to Presence server
Conference Server is notified to place Kathy in listen-only mode
Conference Server temporarily disconnects Kathy from voice conference
acknowledgment
Notify AI, Pat, Ann, and Kathy of Kathy's change in participation from Active to Monitor
Presence Server updates team directory